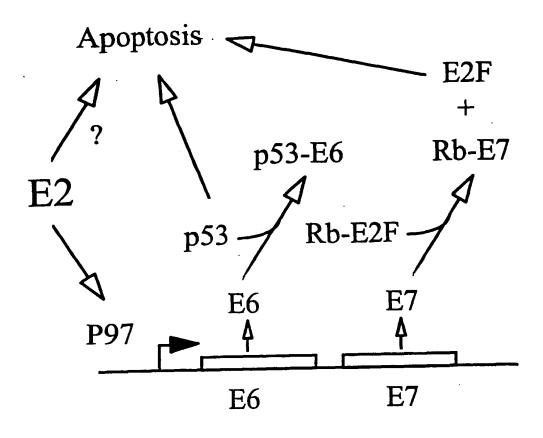
Fig. 1

1/23



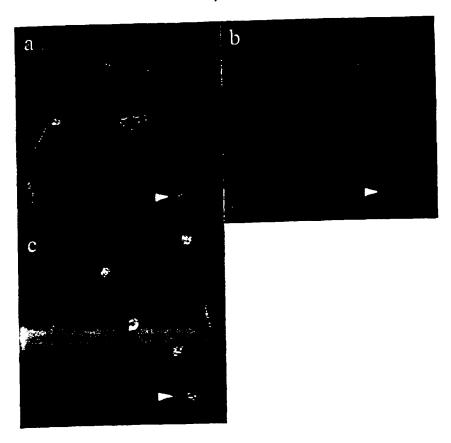
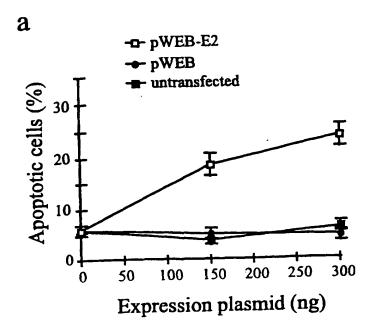


Fig. 2

Fig. 3A



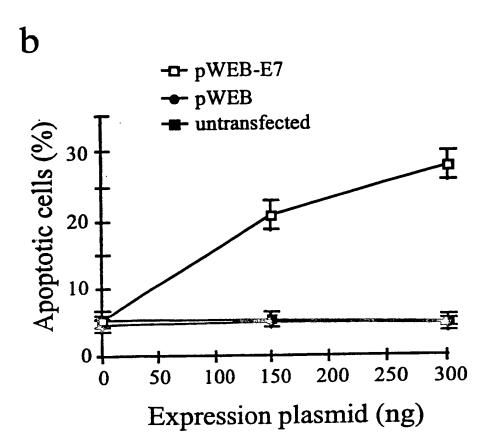


Fig. 3B

TOUTZOO CATANOT



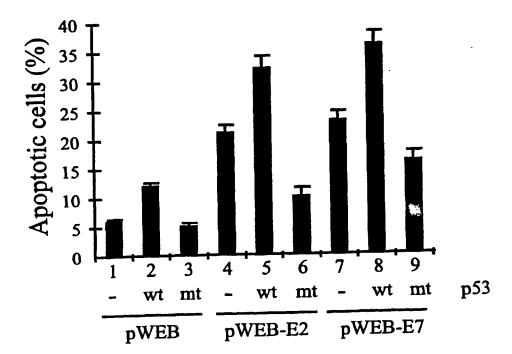
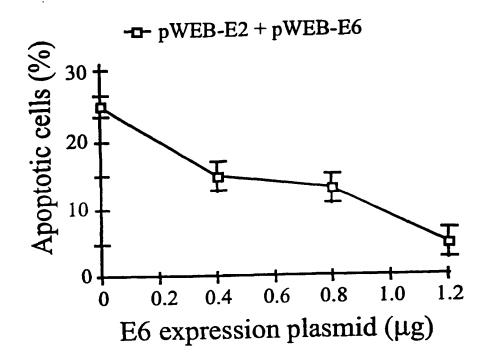


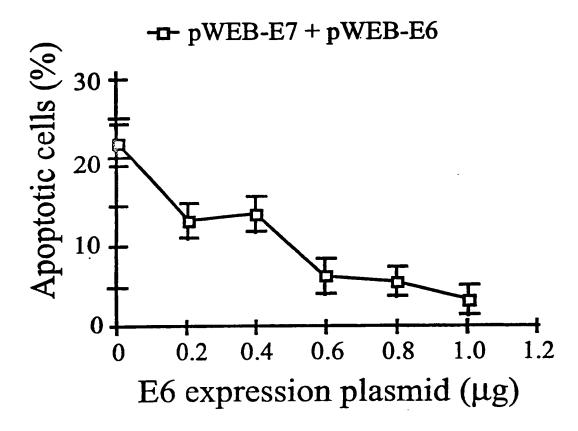
Fig. 4B

b



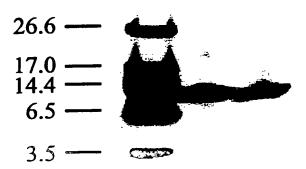
TOHTOOOLITHOOL

C



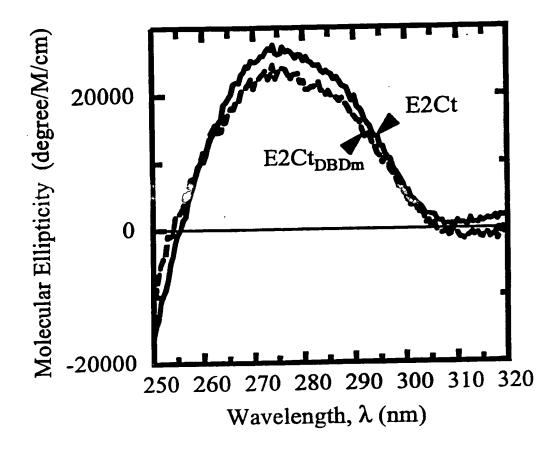
a

M E2Ct E2Ct_{DBDm}



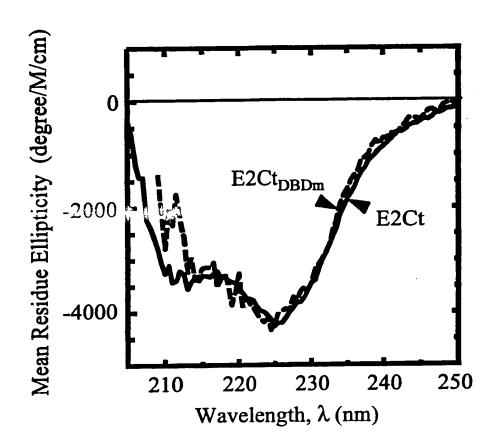
ZOHILO CEEZHODI

b



C

10047990 O1140E





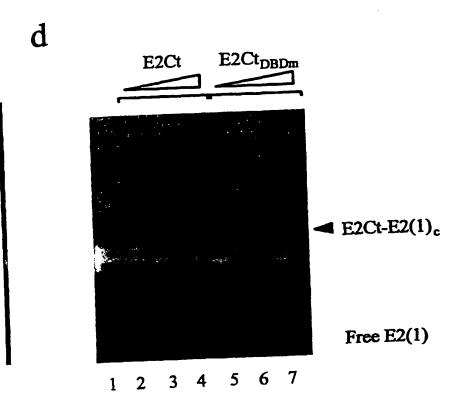


Fig. 6

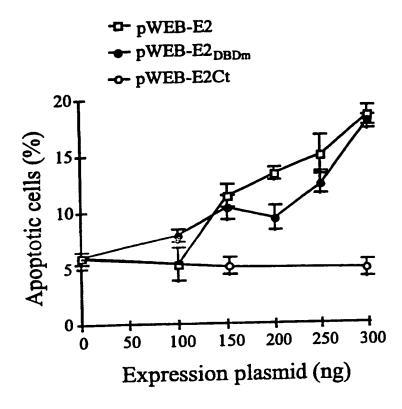


Fig. 7A

a

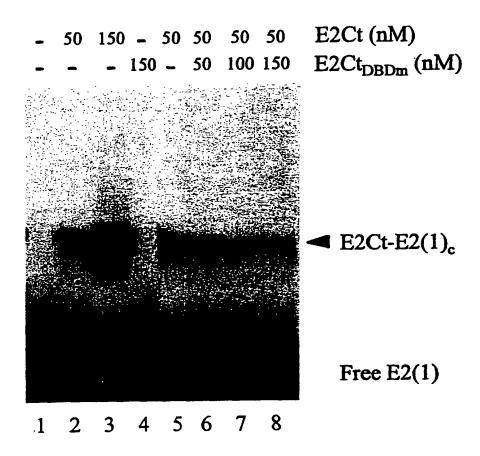


Fig. 7B

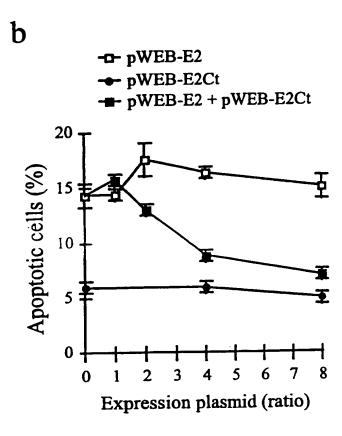


Fig. 8

The E2 proteins used in this work

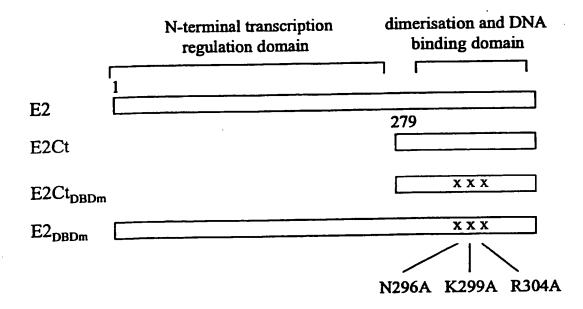


Fig. 9

HPV 16 E2

	•	ATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCAGGACAAAATACTAACACATTATGAA																		
2755		E	т	L	С	Q	R	L	N N	v	С	Q	D	ĸ	1	L	Т	н	Y	E
2815		AATGATAGTACAGACCTACGTGACCATATAGACTATTGGAAACACATGCGCCTAGAATGT																		
2015		D	S	T	D	L	R	D	Н	I	D	Y	W	K	H	M	R	L	· E	С
2875		GCTATTTATTACAAGGCCAGAGAAATGGGATTTAAACATATTAACCACCAAGTGG																		
		I															Q	v	t	P
	AC	ACACTGGCTGTATCAAAGAATAAAGCATTACAAGCAATTGAACTGCAACTAACGTTAGAA																		
2935		L	+ A	v	s	-+- K	N		A	L	Q	Α	+ I	E	L	Q	L	T	+ L	E
-		ACAATATAACTCACAATATAGTAATGAAAAGTGGACATTACAAGACGTTAGCCTTGAA																		
2995																				E
3055		GTGTATTTAACTGCACCAACAGGATGTATAAAAAAACATGGATATACAGTGGAAGTGCAG																		
3033		Y	L	T	A	P	T	G	c ·	I	K	K	Н	G	Y	T	V	E	v	Q
2.15	ጥጥ	TTTGATGGAGACATATGCAATACAATGCATTATACAAACTGGACACATATATAT																		
2115			TGG	AGA 	CAT	ATG	CAA	TAC	AAT	GCA	TTA	TAC	AAA	CTG	GAC	ACA	TAT	ATA	TAT	TTGT
3115			+			-+-			+				+			-+-			+	
	F	D AGA	G AGC	D ATC	I AGT	C AAC	N	T	м	Н	Y	т	+ N	 W	T	-+- H	I	Y	+ I	
3115	F GA	D AGA	G AGC	D ATC	I AGT	C AAC	N TGT	T GGT	M AGA	H GGG	Y TCA	T AGT	+ N TGA	W	T T	-+- H TGG	I TTT.	Y ATA	+ I TTA	C
3175	F GA E	D AGA E	AGC:	D ATC S	I AGT V	AAC	N TGT V	T GGT. V	AGAO E	H GGG G	Y TCA Q GTT	T AGT V	HONTGA	CTA Y	T TTA Y TGC	TGG +- G	I TTT. L	Y ATA	TTA	C
	GA CA	D AGA E	AGC:	D ATC S	I AGT	AAC	N TGT(V	T GGT. V	AGAO E	H GGG G	Y TCA Q	T AGT V	TGA + D	W CTA Y	T TTA Y TGC.	TGG G AGA	I TTT. L	Y ATA Y	TTA Y TAG	C TGTT V
3175	GA CA	D AGA E TGA	AGC:	D ATC S	I AGT	AAC	N TGT(V	T GGT. V	AGAO E	H GGG G	Y TCA Q	T AGT V	TGA + D	W CTA Y	T TTA Y TGC.	TGG G AGA	I TTT. L	Y ATA Y	TTA Y TAG	C TGTT V
3175	GA CA H	D AGA	AGC. A AGG.	D S AATZ	I V VACG	C C AAC	N TGTC V	T GGT: V	AGAO E TGTO V	H GGGG G	Y TCA Q GTT	T AGT V	H N TGA H D	W CTA Y TGA	T TTA Y TGC.	TGG -+- G AGA	I TTT. L AAA	Y ATA Y ATA Y	+ I TTA + Y TAG	C TGTT V
3175	F GA CA H	D AGA	AGC. A AGG. A AGG.	D S S AATZ	I V ACG/	C C AAAC T T AAAC T T	N TGTO V ATA: Y	T GGT. V FTT	AGAG	H GGGG G GCA	Y TCA	T AGT V TAA K	N TGA D AGA D	W CTA Y TGA D	TTTA Y TGC:	H TGGG G AGA	I TTTT L K	Y ATA Y ATA	TTAGTO	TGTT V TAAA K
3175 3235 3295	GA CA H	D AGA E TGA E K	AGCA AGGA AGGA AGGA CGAAG	D ATC. S AAAT. I	I AGT: V ACG: R GGA: E	AAC: T AAC: T V	N TGTC V ATA' Y FCA' H	T GGT. V FF FGCC	M AGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	H GGGG G GCA Q FGGG G	Y TCA Q GTT F	T AGT V TAA K	HAAT	W CTA Y TGA	T TTA Y TGC. A ATG	H TGGG G AGA. +- E	I TTT. L AAAA K TAC	Y ATA Y ATC	TTA+ S TGT(C TGTT V TAAA K GTTT F
3175	GA CA H	D AGA E TGA E K	AGC. AGCT. AGGT. CAAC	D ATC	I AGT V ACG R GGAA E	AACTT AACTT V	N TGTC V ATA' Y	T GGT. V FTTT F	AGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	H GGGG G GCA Q GGAATT	Y TCA Q GTT F	T AGT V TAA. K	TGA + D AGA D AAT:	W CTA Y TGA D	T TTA Y TGC. A ATG	TGGGCC-+	I TTTT. L AAAAK K	Y ATA Y ATA Y S CCAC	TTAGTO+	TAAA K GTTT F
3175 3235 3295	GA CA H	D AGA E TGA. E CAGG	AGCI AGGI A AGGI A AGGI V CAAC	D ATC	I AGTA V ACGA R SGGAA	AACTT V	N TGTCA Y H CTCA S	T GGT. V F F GGCC	AGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	H GGGG G GCA Q GGGGG G AAT	Y TCA Q GTT F CAC	T AGT V TAA. K	TGAATA D AAAT I GCAA	W CTA Y TGA D ATTI	T TTA Y TGC. A ATG	TGGCAAGAACCAAACAAACAAACAAAACAAAAAAAAAAA	I TTTT. L AAAA K TACI	Y ATA Y ATA Y ATA H FATO	TTAGTO+	C TGTT V TAAA K GTTT F CGCC A

3835 ----+-- 3852

G F M S I * -

A T H T K A V A L G T E E T Q T T I Q R CCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGAC PRSEPDTGNPCHTTKLLHRD TCAGTGGACAGTGCTCCAATCCTCACTGCATTTAACAGCTCACACAAAGGACGGATTAAC SVDSAPILTAFNSSHKGRIN TGTAATAGTAACACTACACCCATAGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT CNSNTTPIVHLKGDANTLKC TTAAGATATAGATTTAAAAAGCATTGTACATTGTATACTGCAGTGTCGTCTACATGGCAT 3655 ----+---LRYRFKKHCTLYTAVSSTWH TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA W T G H N V K H K S A I V T L T Y D S E TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT W Q R D Q F L S Q V K I P K T I T V S T GGATTTATGTCTATATGA

Fig 10

HPV 16 E2DBDm

10 E		יטם																			
	-	ATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCAGGACAAAATACTAACACATTATGAA																			
2755											•	С									
2815		AATGATAGTACAGACCTACGTGACCATATAGACTATTGGAAACACATGCGCCTAGAATGT																			
												D									
		GCTATTTATTACAAGGCCAGAGAAATGGGATTTAAACATATTAACCACCAAGTG																			
2875																					P
																					'AGAJ
2935												Q									E
2995		ACAATATAACTCACAATATAGTAATGAAAAGTGGACATTACAAGACGTTAGCCTTGAA																			
											•	K		-			-				E
2055	_	GTGTATTTAACTGCACCAACAGGATGTATAAAAAAACATGGATATACAGTGGAAGTGCAG																			
3033							P	T	G	c	I	K	K	H	G	Y	Ť	V	E	v.	Q
3115	-																	TAT	ATA	TAT	TTG1
J11J												Y						I	Y	I	С
3175	_	GAAGAAGCATCAGTAACTGTGGTAGAGGGTCAAGTTGACTATTATGGTTTATATTATGTT																			
J J												Q	V	D	Y	Y	G	L	Y	Y	V
3235		ATG	AA -+	GG/	AAT	ACG	AAC	ATA	TTT	TGT	GCA	GTT	TAA	AGA +	TGA	TGC	AGA	AAA	ATA	TAG	TAAA
J 2.JJ		E		G	I	R	T	Y	F	V	Q	F	K	D	D	A	E	K	Y	S	K
3295																					G TT T
J												Q									
3355		GCA	GC.	AA(CGA.	AGT.	ATC	CTC	TCC	TGA	aat 	TAT	TAG	GCA	GCA	CTT	GGC	CAA	CCA	CCC	CGCC
,,,,,		S	•	N	E	v	S	s	P	E	I	I	R	Q	Н	L	A	N	Н	P	A
3415	_				rac	CAA	AGC	CGT	CGC	CTT +		CAC				ACA	GAC	GAC	TAT	CCA	GCGA
7417					T	K	À	V	A	L.		T		•		Q	T	T	I	Q	R

3475	CC	CCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGAC															AGAC			
	P	R	s	E	P	D	T	G	N	P	С	Н	T	T	K	L	L	Н	R	D
2525	TC	AGT	GGA	CAG	TGC	TCC	AAT	CCT	CAC	TGC	ATT	TAA	CAG	CTC	ACA	CAA	AGG	ACG	GAT	TAAC
3535	s	v	D	s	A	P	I	L	T	A	F	N	s	s	Н	K	G	R	I	N
3595	TGTAATAGTAACACTACACCCATAGTACATTTAAAAAGGTGATGCTgctACTTTAgcaTGT															aTGT				
3333	С	N	•	N	T	•	P	I	•	Н	L	K	G	D	A	A	T	L	A	С
3655				-													_	TAC	ATG	GCAT
3633	L		Y		F		K	H			L	Y	T	A	V	S	s	T	W	Н
3715		TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA															TGAA			
3/13	W	T	G	H	N	V		Н	K		A	I	v	T	L	T	Y	D	s	E
		GCA															TAC	AGT	GTC'	TACT
3775	W	Q	R	D	Q	F	L	s	Q			I	P	K		Ţ	T	v	s	T
3835		ATT:																		
						+	_	652												

Fig 11

E2Ct

ATGAACTGTAATAGTAACACTACACCCATAGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT

M N C N S N T T P I V H L K G D A N T L K C

TTAAGATATAGATTTAAAAAGCATTGTACATTGTATACTGCAGTGTCGTCTACATGGCAT

L R Y R F K K H C T L Y T A V S S T W H

TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA

W T G H N V K H K S A I V T L T Y D S E

TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT

WQRDQFLSQVKIPKTITVST

GGATTTATGTCTATATGA ----+-- 3852 G F M S I + -

Fig 12

E2CtDBDm

M N C N S N T T P I V H L K G D A A T L A C

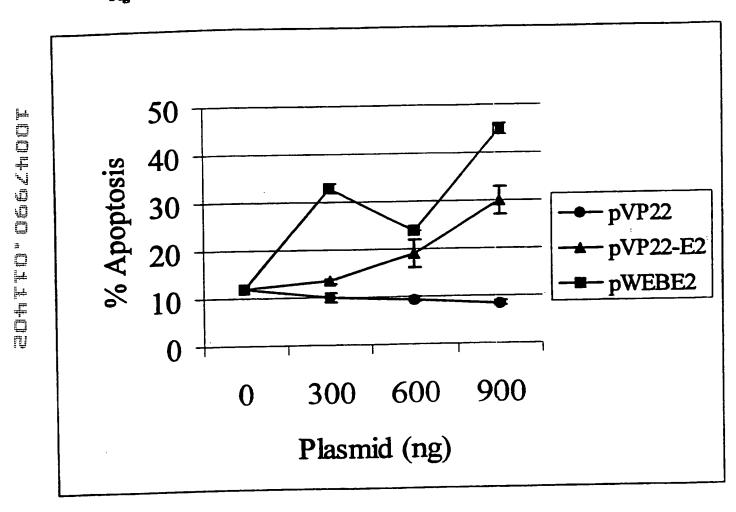
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L R Y A F K K H C T L Y T A V S S T W H

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W T G H N V K H K S A I V T L T Y D S E

TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAAACTATTACAGTGTCTACT
W Q R D Q F L S Q V K I P K T I T V S T

GGATTTATGTCTATATGA
----+- 3852
G F M S I * -

Fig 13



23/23

